

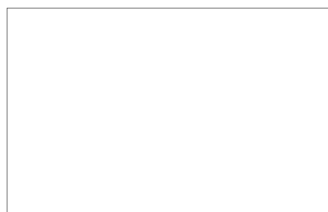
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NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

**PHOTOGRAPHIC  
INTERPRETATION  
REPORT**

**RADOST  
PROBABLE SIGINT FACILITY**



GROUP 1: EXCLUDED FROM  
AUTOMATIC DOWNGRADING  
AND DECLASSIFICATION

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OCTOBER 1970  
COPY NO **117**  
4 PAGES  
PIR-067/70

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INSTALLATION OR ACTIVITY NAME				COUNTRY	
Radost Probable SIGINT Facility				UR	
UTM COORDINATES	GEOGRAPHIC COORDINATES	BE NUMBER	COMIREX NO.		
NA	50-45-45N 116-30-00E	None	None		
MAP REFERENCE					

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SAC. USATC, Series 200, Sheet 0202-6, scale 1:200,000

LATEST IMAGERY USED	NEGATION DATE (if required)
	NA
	NPIC PROJECT
	250863

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## INTRODUCTION

1. The Radost Probable SIGINT Facility (Figure 1) is on the west side of the Mirnaya Army Barracks All approximately 28 nautical miles (nm) northwest of Borzaya, USSR, and 60 nm north of the Sino-Soviet border. Large-scale and small-scale photography through April 1970 indicate that this is a communications receiving/collection facility.

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2. A search of available photography failed to locate a SIGINT-identified transmitting facility in the vicinity of Radost.

## BASIC DESCRIPTION

3. The Radost Probable SIGINT Facility (Figure 2) contains a FIX 24 direction finding (DF) facility, five 2-2-2 high frequency (HF) fishbone antennas, nine horizontal dipole antennas, and a T-shaped control building. All the antennas and the FIX 24 facility appear operational. Details of antenna frequencies and azimuths are given in Table 1, which is keyed to Figure 2.

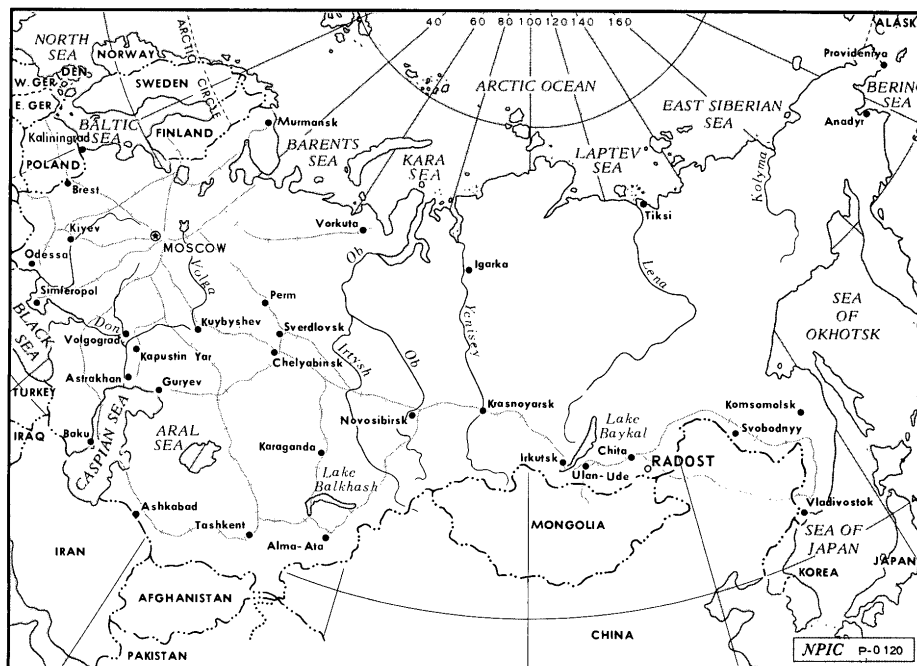


FIGURE 1. LOCATION MAP

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4. The five receiving fishbone antennas form an arc of approximately 100 degrees in width and are oriented toward China (inset, Figure 2). All feedlines for the five fishbone antennas and the nine horizontal dipole antennas terminate at the T-shaped control building, which indicates that the horizontal dipoles are also receiving antennas. None of the antennas at this facility have orientations within 15 degrees of Arsenev, USSR, or 25 degrees of Chita, USSR, which are possible correspondents of a SIGINT-identified transmitting facility in the Radost area.

5. Several possible support buildings south of the T-shaped control building have been constructed since June 1969. However, it cannot be determined if they are associated with the communications facility or with the barracks.

TABLE 1. DETAILS OF ANTENNAS AT THE RADOST PROBABLE SIGINT FACILITY

<u>Item</u>	<u>Type</u>	<u>Soviet Designator*</u>
A	Horizontal dipole	VGd $\frac{30d}{11}$
B	Horizontal dipole	VGd $\frac{60d}{22}$
C	Horizontal dipole	VGd $\frac{60d}{22}$
D	Horizontal dipole	VGd $\frac{30d}{20}$
E	Horizontal dipole	VGd $\frac{60d}{24}$
F	Horizontal dipole	VGd $\frac{60d}{24}$
G	Horizontal dipole	VGd $\frac{30d}{13}$
H	Horizontal dipole	VGd $\frac{71d}{23}$
I	Horizontal dipole	VGd $\frac{71d}{23}$
J	Fishbone	BS $\frac{21}{8} \frac{r}{4.5} \frac{19}{4.5}$
K	Fishbone	BS $\frac{21}{8} \frac{r}{4.5} \frac{19}{4.5}$
L	Fishbone	BS $\frac{21}{8} \frac{r}{4.5} \frac{19}{4.5}$
M	Fishbone	BS $\frac{21}{8} \frac{r}{4.5} \frac{19}{4.5}$
N	Fishbone	BS $\frac{21}{8} \frac{r}{4.5} \frac{19}{4.5}$

\*VGd =  $\frac{1}{h} d$  where l = length of arm (meters)  
h = height on antenna (meters)  
d = diameter (meters)

BS =  $\frac{n}{l} \frac{r}{l} \frac{H}{l}$  where n = number of dipole elements  
l = length of dipole arms (meters)  
r = coupling impedance (ohms)  
l<sub>1</sub> = distance between dipole elements (meters)  
H = height

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